

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Previously Presented) A shape memory foam member, wherein
a coefficient of water absorption is in the range between 0.01 g/cm^3 and 0.2 g/cm^3
in a non-compressed state and a bulk density is not more than 400 kg/m^3 , and
said shape memory foam member with an original shape is compressed with
heating; cooled with keeping said shape memory foam member in the compressed state;
and released from the compressive pressure after cooling, and
the original shape of said shape memory foam member is substantially recovered
by heating.

2. (Canceled)

3. (Previously Presented) An engine soundproof cover disposed to cover an
engine, comprising:

the shape memory foam member of claim 1 provided on a surface of said
soundproof cover which covers the engine.

4-6. (Canceled)

7. (Previously Presented) An engine soundproof structure comprising:
a soundproof cover disposed to cover an engine,
wherein the shape memory foam member of claim 1 is provided on a surface of
said soundproof cover which covers the engine.

8-10. (Canceled)

11. (Previously Presented) A method of producing a shape memory foam member comprising:

providing the shape memory foam member having a coefficient of water absorption in the range between 0.01 g/cm^3 and 0.2 g/cm^3 in a non-compressed state and having a bulk density not more than 400 kg/m^3 ;

compressing the shape memory foam member with heating;

cooling the shape memory foam member with keeping the shape memory foam member in the compressed state; and

releasing the shape memory foam member from the compressive pressure after cooling thereby retaining a shape in the compressed state.

12. (Canceled)

13. (Previously Presented) The shape memory foam member according to Claim 1, wherein a bulk density is not more than 150 kg/m^3 .

14. (Previously Presented) The engine soundproof cover according to Claim 3, wherein a bulk density is not more than 150 kg/m^3 .

15. (Previously Presented) The engine soundproof structure according to Claim 7, wherein a bulk density is not more than 150 kg/m^3 .

16. (Previously Presented) The method of producing a shape memory foam member according to Claim 11, wherein a bulk density of the shape memory foam member is not more than 150 kg/m^3 .

17. (Previously Presented) The engine soundproof cover according to Claim 3, wherein the original shape of said shape memory foam member is substantially recovered via engine heat.

18. (Previously Presented) The engine soundproof structure according to Claim 7, wherein the original shape of said shape memory foam member is substantially recovered via engine heat.

19. (Currently Amended) ~~The A~~ shape memory foam member ~~according to Claim 1~~, wherein the

a coefficient of water absorption is in the range between 0.04 g/cm³ and 0.1 g/cm³ in a non-compressed state and a bulk density is not more than 400 kg/m³, and

said shape memory foam member with an original shape is compressed with heating; cooled with keeping said shape memory foam member in the compressed state; and released from the compressive pressure after cooling, and

the original shape of said shape memory foam member is substantially recovered by heating.

20. (Currently Amended) ~~The A~~ method of producing a shape memory foam member ~~according to Claim 11, wherein the providing step is practiced by~~ comprising:

providing the shape memory foam member having a coefficient of water absorption in the range between 0.04 g/cm³ and 0.1 g/cm³ in a non-compressed state and having a bulk density not more than 400 kg/m³;

compressing the shape memory foam member with heating;

cooling the shape memory foam member with keeping the shape memory foam member in the compressed state; and

releasing the shape memory foam member from the compressive pressure after cooling thereby retaining a shape in the compressed state.

21. (New) A shape memory foam member, wherein

a coefficient of water absorption is in the range between 0.02 g/cm^3 and 0.2 g/cm^3 in a non-compressed state and a bulk density is not more than 400 kg/m^3 , and

said shape memory foam member with an original shape is compressed with heating; cooled with keeping said shape memory foam member in the compressed state; and released from the compressive pressure after cooling, and

the original shape of said shape memory foam member is substantially recovered by heating.

22. (New) A method of producing a shape memory foam member comprising:

providing the shape memory foam member having a coefficient of water absorption in the range between 0.02 g/cm^3 and 0.2 g/cm^3 in a non-compressed state and having a bulk density not more than 400 kg/m^3 ;

compressing the shape memory foam member with heating;

cooling the shape memory foam member with keeping the shape memory foam member in the compressed state; and

releasing the shape memory foam member from the compressive pressure after cooling thereby retaining a shape in the compressed state.

23. (New) The shape memory foam member according to claim 1, wherein the coefficient of water absorption is in the range between 0.056 g/cm^3 and 0.082 g/cm^3 in a non-compressed state.

24. (New) The method of producing a shape memory foam member according to claim 11, wherein the providing step is practiced by providing the shape memory foam member having a coefficient of water absorption in the range between 0.056 g/cm^3 and 0.082 g/cm^3 in a non-compressed state.